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WHAT IS CLAIMED:

- 1. A method of reducing artifacts in an image previously processed by block transform encoding comprising the steps of:
- 5 determining block boundaries;

determining an approximate metric of artifact visibility;

adaptively filtering luminance;

adaptively adjusting local saturation variation;

adaptively simulating high spatial frequency image detail;

- wherein the adaptive steps are executed to a degree or an amount dependent on the metric of artifact severity.
 - 2. The method of claim 1 wherein prior to adaptively filtering luminance, luminance values are interpolated across block boundaries

3. The method of claim 1 wherein in conjunction with adaptively filtering luminance, chrominance is adaptively filtered.

- 4. The method of claim 2 wherein in conjunction with adaptively filtering luminance, chrominance is adaptively filtered.
- 5. A method of reducing artifacts in an image previously processed by block transform encoding comprising the steps of:

determining block boundaries;

determining an approximate metric of artifact visibility;

adaptively filtering luminance with a filter;

adaptively increasing local chrominance contrast;

adaptively simulating high frequency image detail by means of sharpening and addition of noise;

wherein the adaptive steps are executed to degree that depends on the metric of artifact visibility.

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- 6. The method of claim 5 wherein prior to adaptively filtering luminance, luminance values are interpolated across block boundaries.
- 5 7. The method of claim 5 wherein after adaptively filtering luminance, chrominance is adaptively filtered.
 - 8. The method of claim 6 wherein after adaptively filtering luminance, chrominance is adaptively filtered.
 - 9. A method of reducing artifacts in an image previously processed by block transform encoding comprising the steps of:

determining block boundaries; adaptively filtering luminance; and adaptively adjusting local saturation variation.

- 10. A method of reducing artifacts in an image previously processed by block transform encoding comprising the steps sharpening of existing detail and simulating missing detail by the addition of noise.
- 11. The method of claim 10 including a step of adaptively filtering luminance.
- 12. The method of claim 11 wherein prior to adaptively filtering luminance, luminance values are interpolated across block boundaries.
- 13. The method of claim 10 wherein after adaptively filtering luminance, chrominance is adaptively filtered.
- 14. The method of claim 12 wherein after adaptively filtering luminance, chrominance is30 adaptively filtered.

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- 15. A method of reducing artifacts in an image previously processed by block transform encoding comprising the step of selecting a median filter window based on an assessment of a pixel value according to a variance of a binary mask.
- 5 16. The method of claim 1 wherein the pixel value comprises luminance texture.
 - 17. A method of reducing artifacts in an image comprising the step of selecting a median filter window based on an assessment of a pixel value according to a variance of a binary mask.
- 18. A computer having software and hardware therein that is capable of executing and performing the method of claim 1.
 - 19. A computer having software and hardware therein that is capable of executing and performing the method of claim 2.
 - 20. A computer having software and hardware therein that is capable of executing and performing the method of claim 5.
- 21. A computer having software and hardware therein that is capable of executing and performing the method of claim 8.
 - 22. A computer having software and hardware therein that is capable of executing and performing the method of claim 10.
 - 23. A computer having software and hardware therein that is capable of executing and performing the method of claim 15.

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